

Title (en)
OUTLIER-TOLERANT NAVIGATION SATELLITE SYSTEM POSITIONING METHOD AND SYSTEM

Title (de)
AUSREISSERTOLERANTES NAVIGATIONSSATELLITENSYSTEMPOSITIONIERUNGSVERFAHREN UND -SYSTEM

Title (fr)
PROCÉDÉ ET SYSTÈME DE POSITIONNEMENT DE SYSTÈME DE NAVIGATION SATELLITE TOLÉRANT LES VALEURS ABERRANTES

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Application
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Abstract (en)
The invention relates to a method (300) carried out by a navigation satellite system (NSS) receiver or a processing entity receiving data therefrom, for estimating parameters useful to determine a position. The NSS receiver observes NSS signals from NSS satellites. Two filters, called "robustifier" (210) and "main estimator" (220) respectively, both use state variables and compute the values thereof based on: NSS signals observed by the NSS receiver, and/or information derived therefrom. The robustifier (210) identifies, within the input data, measurements that do not match a stochastic model assigned thereto. For each identified measurement, the robustifier (210) rejects the measurement, adjusts the stochastic model assigned to the measurement, and/or corrects the measurement. The robustifier (210) uses fewer state variables than the main estimator (220). A corresponding system is also disclosed.

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Citation (applicant)

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